Title (en)
    IMPROVEMENTS IN OR RELATING TO FOLDING CHAIRS

Title (de)
    VERBESSERUNGEN AN ODER IN BEZUG AUF KLAPPSITZE

Title (fr)
    AMÉLIORATIONS APPORTÉES OU LIÉES À DES CHAISES PLIANTES

Publication
    EP 3774632 A1 20210217 (EN)

Application
    EP 19718833 A 20190411

Priority
    • GB 201806032 A 20180412
    • GB 2019051057 W 20190411

Abstract (en)
    [origin: GB2572807A] A folding mechanism for a chair 10, in particular a stairlift chair, having a linkage 16 connecting a seat base 11 and armrests 13 such that as the seat base 11 moves to a folded position a rear edge 26 of the seat base 11 is raised relative to a backrest 12 whilst a front edge 25 of the seat base 11 and the armrests 13 are displaced towards the backrest 12. The linkage 16 may also cause distal ends 41 of the armrests 13 to be displaced towards one another as the seat base moves to a folded position (figs. 1A & 2A). The linkage 16 may be a pair of four bar linkages (30a, 30b fig. 4) connected by crossbars (31 fig. 4), each linkage being formed from chassis (15 fig. 4), front links (32a, 32b fig. 4), rear links (33a, 33b fig. 4) and top links (34a, 34b fig. 4). The distal ends 41 of the armrests 13 may be formed by the upper ends of uprights 42 connected to the linkage 16 about pivot axes defined by pins 43, the axes being aligned at acute angles (α fig. 5B) to the folding direction 27 when viewed in plan and inclined at acute angles (β fig. 6B) to a horizontal plane when viewed in elevation. The folding mechanism describes ensures that all parts of the chair remain in a swivel arc (20 fig. 1A) whether the chair is in an in-use configuration or folded configuration.

IPC 8 full level
    B66B 9/08 (2006.01); **A47C 7/54** (2006.01)

CPC (source: EP GB US)
    A47C 1/031 (2013.01 - GB); **A47C 1/121** (2013.01 - GB US); **A47C 4/04** (2013.01 - EP); **A47C 7/543** (2013.01 - EP GB US);
    A47C 7/56 (2013.01 - EP GB US); **B66B 9/0853** (2013.01 - EP GB US)

Citation (search report)
    See references of WO 2019197841A1

Designated contracting state (EPC)
    AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
    BA ME

DOCDB simple family (publication)
    GB 201806032 D0 20180530; **GB 2572807 A 20191016**; **GB 2572807 B 20220713**; EP 3774632 A1 20210217; US 11690456 B2 20230704;
    US 2021153655 A1 20210527; WO 2019197841 A1 20191017

DOCDB simple family (application)
    GB 201806032 A 20180412; EP 19718833 A 20190411; GB 2019051057 W 20190411; US 201917047083 A 20190411